108

116

104

110

102

118

114

112

106

120

100

Network

Figure 1

Processor
202

Processor
204

206
System Bus

Memory
Controller/
Cache
208

I/O Bridge
210

Local Memory
209

PCI Bus Bridge
214

216
PCI Bus

Modem
218

Network Adapter
220

I/O Bus 212

Graphics Adapter
230

PCI Bus Bridge
222

226
PCI Bus

Hard Disk
232

PCI Bus Bridge
224

228
PCI Bus

200
Server

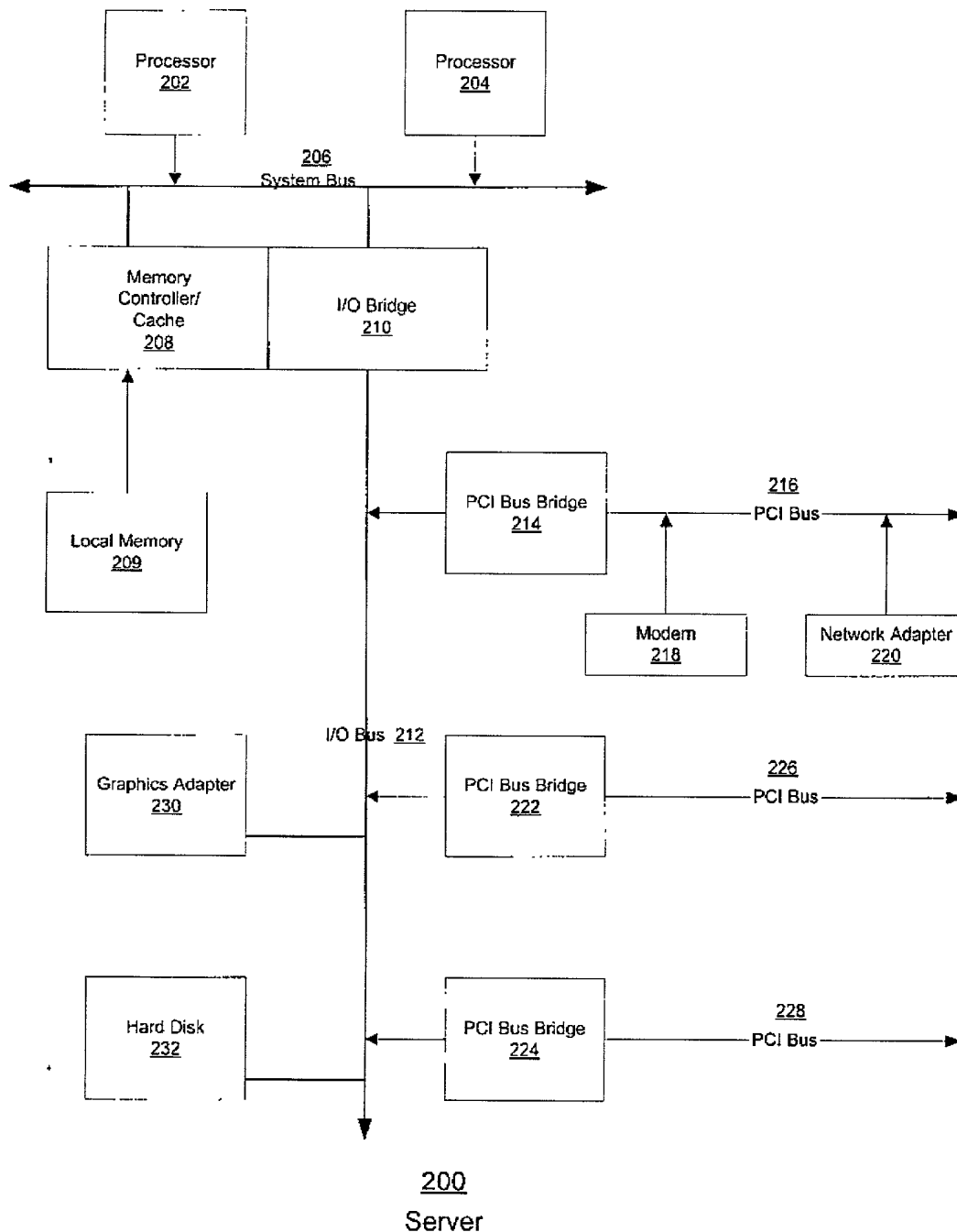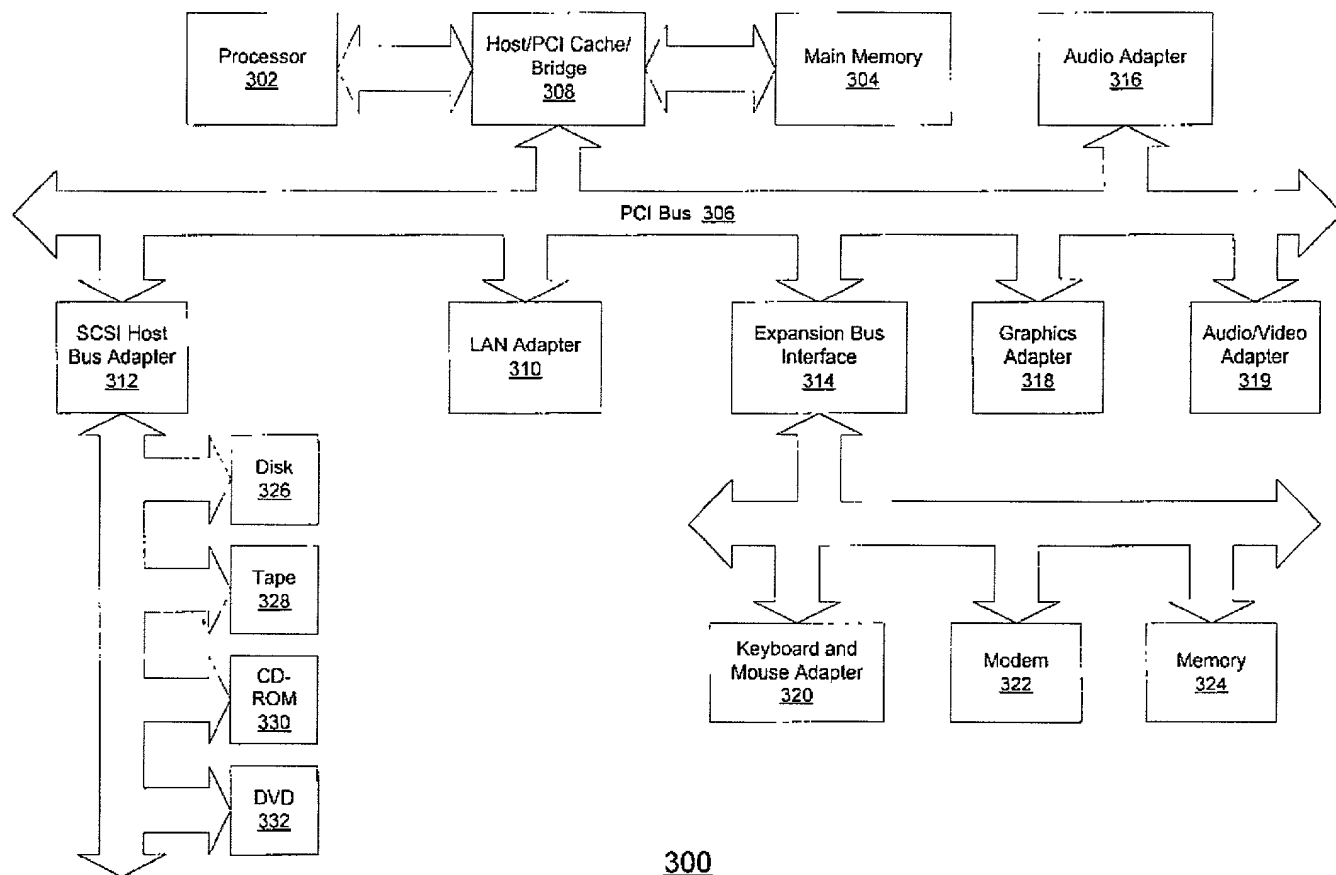# Figure 2

Himmel et al.
AUS920010557US1
Smart Receipt
Page 2 of 9

300
Client

Figure 3
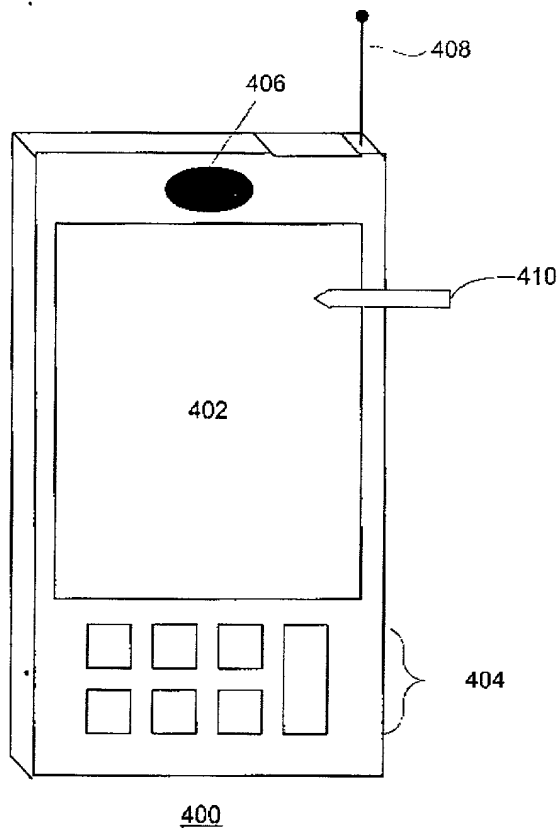
—408

406

—410

402

404

400

Figure 4A

| Processor 424 | Main Memory 426 | Display Adapter 428 | Keypad Adapter 430 |

Bus 422

| Storage 432 | Audio Adapter 434 | Modem 436 | Cradle Link 438 |

400

Figure 4B

Figure 5

Point of sale
601

Credit card
company
602

Credit

Clearing
House
606

Cash

Merchant cash
receipt server
604

Manufacturer
603

Cash or
credit

Smart Receipt
Object
605

Figure 6

Customer starts registration process for Smart Receipt service on the web
701

Customer downloads Smart Receipt Application
702

Customer configures his or her user profile and preferences
703

Customer makes this configuration available to the Smart Receipt service provider
704

Customer finishes the registration process and receives confirmation
705

Customer receive a Smart Receipt Card or Credit/ATM card enabled for Smart Receipt processing
706
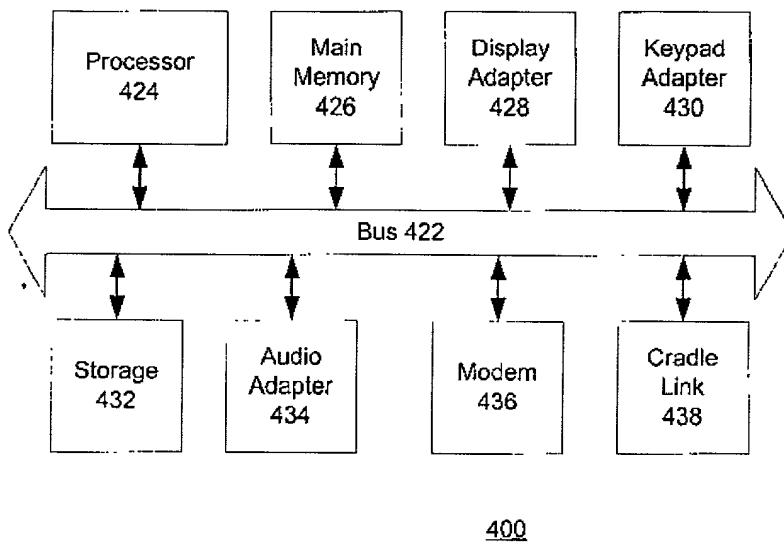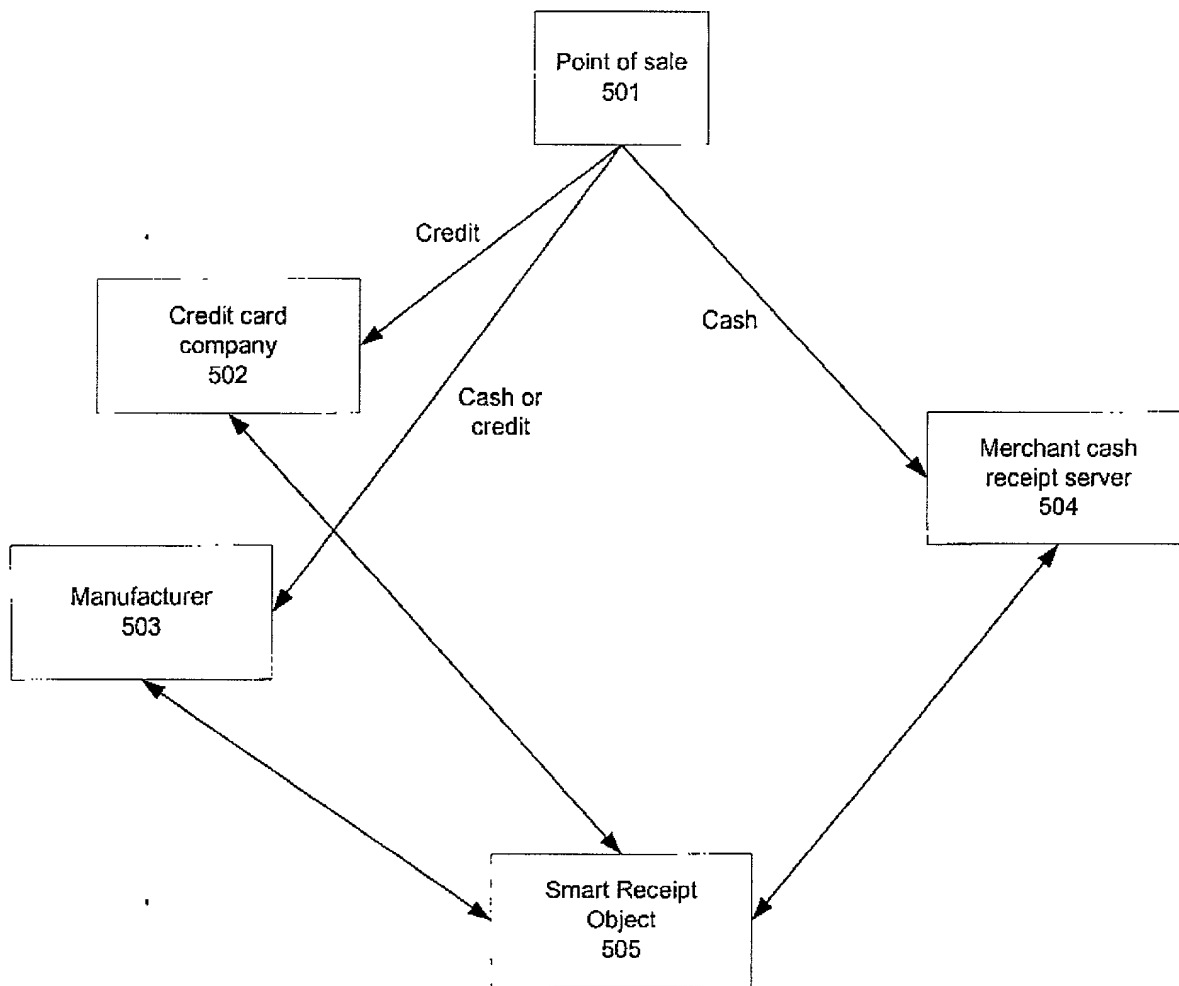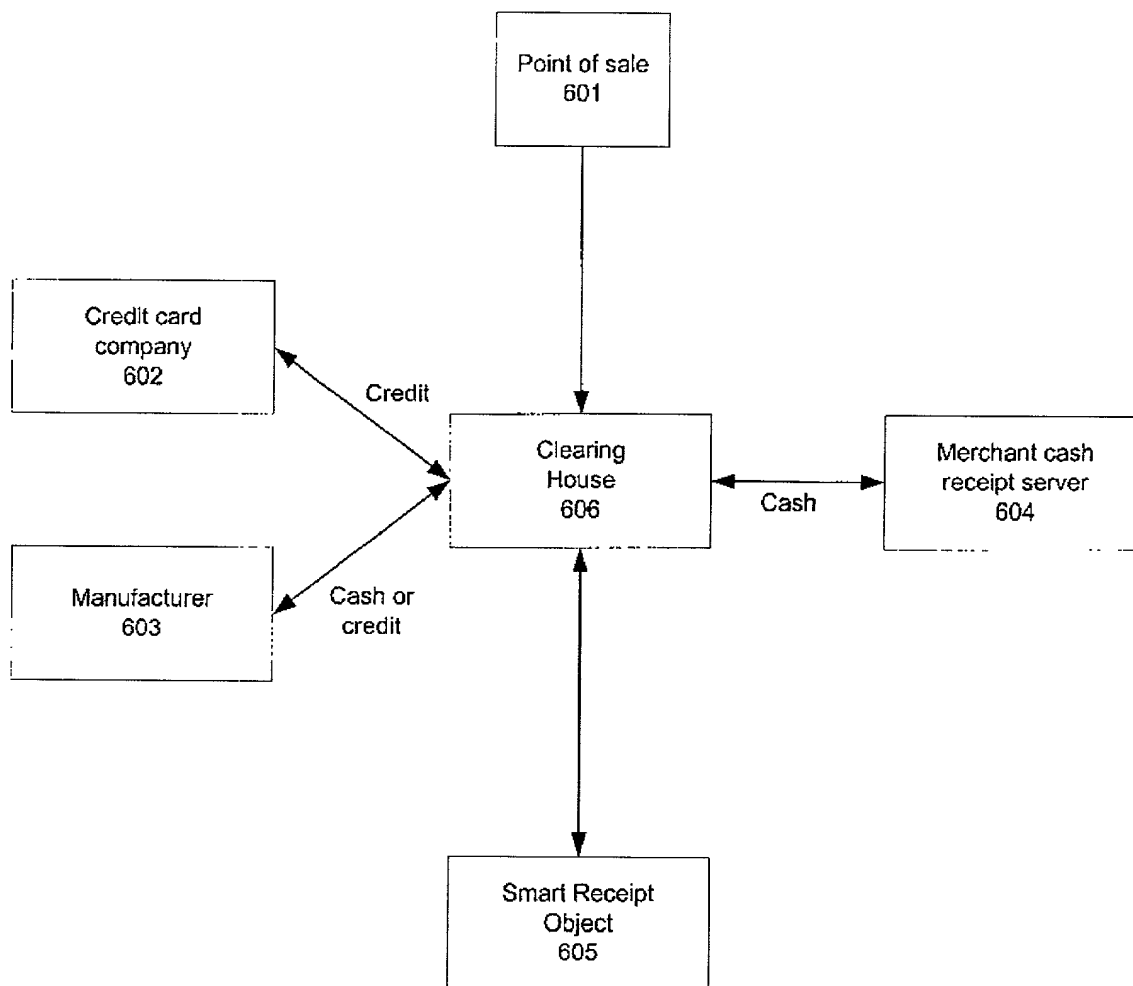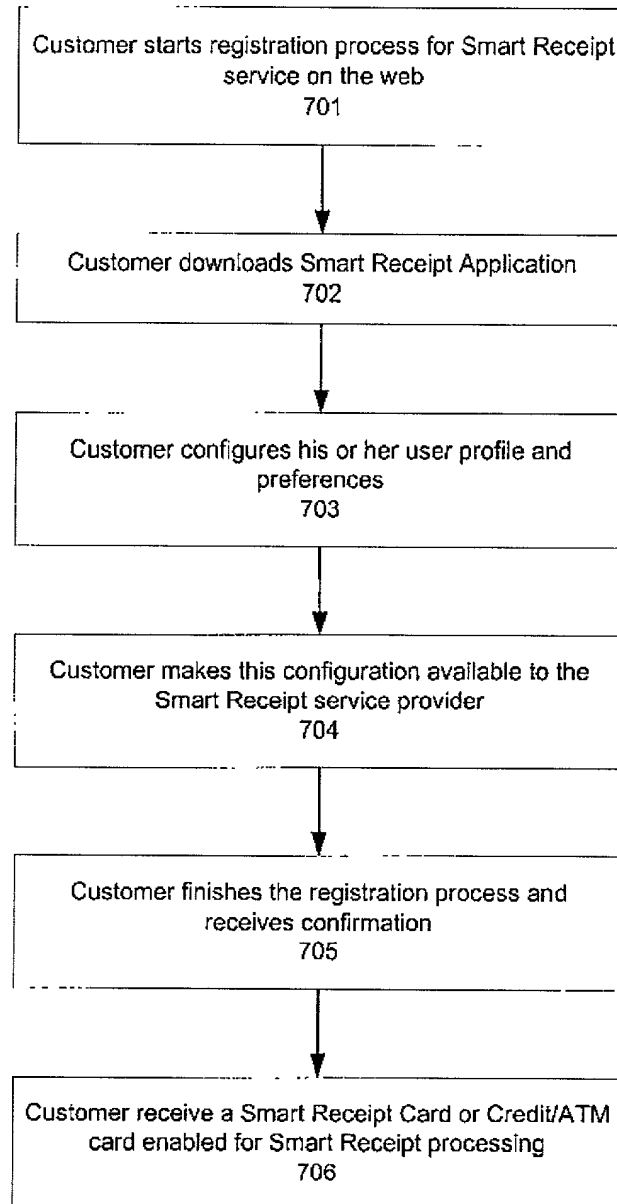
Figure 7

Himmel et al.
AUS920010557US1
Smart Receipt
Page 7 of 9

Customer purchases item with credit
card or Smart Receipt card
801

POS reads user profile from card
802

Cash or credit?
803

Cash

Credit

Receipt sent to Cash
Receipt Server
804

Receipt sent to credit
card company
805
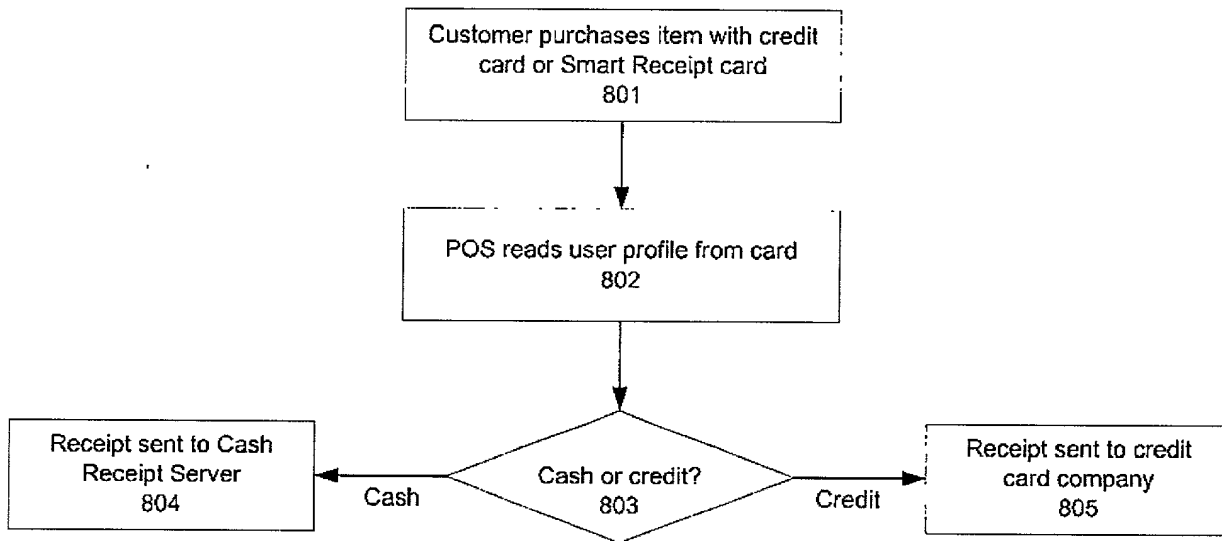
Figure 8

Himmel et al.
AUS920010557US1
Smart Receipt
Page 8 of 9

```
                    ┌─────────────────────────────┐
                    │    Customer needs receipt    │
                    │             901              │
                    └──────────────┬──────────────┘
                                   │
                                   ▼
                    ┌─────────────────────────────┐
                    │ Customer enters search criteria │
                    │             902              │
                    └──────────────┬──────────────┘
                                   │
                                   ▼
                    ┌─────────────────────────────┐
                    │ Smart Receipt object retrieves receipt │
                    │ information according to search criteria │
                    │             903              │
                    └──────────────┬──────────────┘
                                   │
                                   ▼
                    ┌─────────────────────────────┐
                    │ Smart receipt object downloads receipt │
                    │ information to location specified in │
                    │       customer profile       │
                    │             904              │
                    └─────────────────────────────┘
```
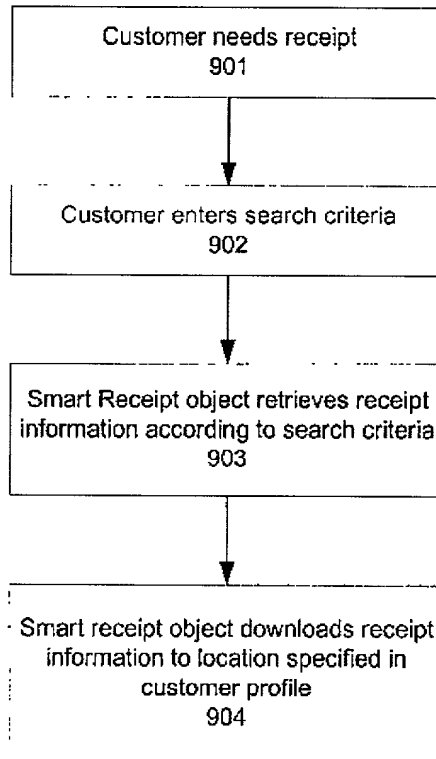
Figure 9